



DEQ AIR QUALITY PROGRAM
 1410 N. Hilton, Boise, ID 83706
 For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 3
 04/03/07

Please see instructions on page 2 before filling out the form.

COMPANY NAME, FACILITY NAME, AND FACILITY ID NUMBER			
1. Company Name	Commercial Fuel Recycling, LLC		
2. Facility Name	3. Facility ID No.		
4. Brief Project Description - Initial Permit to Construct One sentence or less			
PERMIT APPLICATION TYPE			
5. <input type="checkbox"/> New Facility <input type="checkbox"/> New Source at Existing Facility <input checked="" type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modify Existing Source: Permit No.: _____ Date Issued: _____ <input type="checkbox"/> Required by Enforcement Action: Case No.: _____			
6. <input checked="" type="checkbox"/> Minor PTC <input type="checkbox"/> Major PTC			
FORMS INCLUDED			
Included	N/A	Forms	DEQ Verify
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form GI – Facility Information	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form EU0 – Emissions Units General (7)	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form EU1 - Industrial Engine Information Please Specify number of forms attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form EU2 - Nonmetallic Mineral Processing Plants Please Specify number of forms attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form EU3 - Spray Paint Booth Information Please Specify number of forms attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form EU4 - Cooling Tower Information Please Specify number of forms attached: _____	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form EU5 – Boiler Information Please Specify number of forms attached: <u>1</u>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form HMAP – Hot Mix Asphalt Plant Please Specify number of forms attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form CBP - Concrete Batch Plant Please Specify number of forms attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form BCE - Baghouses Control Equipment	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form SCE - Scrubbers Control Equipment	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Forms EI-CP1 - EI-CP4 - Emissions Inventory– criteria pollutants (Excel workbook, all 4 worksheets)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	PP – Plot Plan	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Forms MI1 – MI4 – Modeling (Excel workbook, all 4 worksheets)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form FRA – Federal Regulation Applicability	<input type="checkbox"/>

DEQ USE ONLY	
Date Received	
Project Number	
Payment / Fees Included? Yes <input type="checkbox"/> No <input type="checkbox"/>	
Check Number	

RECEIVED

JAN 24 2008

Department of Environmental Quality
 State Air Program



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PERMIT TO CONSTRUCT APPLICATION

Revision 3
 03/26/07

Please see instructions on page 2 before filling out the form.

All information is required. If information is missing, the application will not be processed.

IDENTIFICATION

1. Company Name	Commercial Fuel Recycling, LLC
2. Facility Name (if different than #1)	
3. Facility I.D. No.	
4. Brief Project Description:	Initial Permit to Construct

FACILITY INFORMATION

5. Owned/operated by: (✓ if applicable)	<input type="checkbox"/> Federal government <input type="checkbox"/> County government <input type="checkbox"/> State government <input type="checkbox"/> City government
6. Primary Facility Permit Contact Person/Title	Randy Blackburn/President
7. Telephone Number and Email Address	208.465.5296/ randy@commercialfuelrecycling.com
8. Alternate Facility Contact Person/Title	
9. Telephone Number and Email Address	
10. Address to which permit should be sent	3116 Garrity Boulevard, No. 7, PMB #63
11. City/State/Zip	Nampa/ID/83687
12. Equipment Location Address (if different than #10)	720 N. Sugar Street
13. City/State/Zip	Nampa/Idaho/83687
14. Is the Equipment Portable?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
15. SIC Code(s) and NAISC Code	Primary SIC: 2992 Secondary SIC (if any): 5983 NAICS: 324191
16. Brief Business Description and Principal Product	Recycling of used motor oil for sale as fuel oil
17. Identify any adjacent or contiguous facility that this company owns and/or operates	

PERMIT APPLICATION TYPE

18. Specify Reason for Application	<input type="checkbox"/> New Facility <input type="checkbox"/> New Source at Existing Facility <input checked="" type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modify Existing Source: Permit No.: _____ Date Issued: _____ <input type="checkbox"/> Permit Revision <input type="checkbox"/> Required by Enforcement Action: Case No.: _____
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CERTIFICATION

IN ACCORDANCE WITH IDAPA 58.01.01.123 (RULES FOR THE CONTROL OF AIR POLLUTION IN IDAHO), I CERTIFY BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION IN THE DOCUMENT ARE TRUE, ACCURATE, AND COMPLETE.		
19. Responsible Official's Name/Title	Randy Blackburn/President	
20. RESPONSIBLE OFFICIAL SIGNATURE		Date: 12-21-07
21. <input checked="" type="checkbox"/> Check here to indicate you would like to review a draft permit prior to final issuance.		



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IDENTIFICATION

Company Name: Commercial Fuel Recycling, LLC	Facility Name:	Facility ID No:
Brief Project Description:	Initial Permit to Construct	

EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION

1. Emissions Unit (EU) Name:	TANK 1		
2. EU ID Number:	T-1 (EP3 AND EP4)		
3. EU Type:	<input type="checkbox"/> New Source <input checked="" type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modification to a Permitted Source -- Previous Permit #: Date Issued:		
4. Manufacturer:	--		
5. Model:	--		
6. Maximum Capacity:	74,000 GALLONS		
7. Date of Construction:	2003		
8. Date of Modification (if any)			
9. Is this a Controlled Emission Unit?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If Yes, complete the following section. If No, go to line 18.		

EMISSIONS CONTROL EQUIPMENT

10. Control Equipment Name and ID:						
11. Date of Installation:			12. Date of Modification (if any):			
13. Manufacturer and Model Number:						
14. ID(s) of Emission Unit Controlled:						
15. Is operating schedule different than emission units(s) involved?	<input type="checkbox"/> Yes <input type="checkbox"/> No					
16. Does the manufacturer guarantee the control efficiency of the control equipment?	<input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, attach and label manufacturer guarantee)					
Control Efficiency	Pollutant Controlled					
	PM	PM10	SO ₂	NOx	VOC	CO

17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.

EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)

18. Actual Operation	8760 HOURS/YEAR
19. Maximum Operation	8760 HOURS/YEAR

REQUESTED LIMITS

20. Are you requesting any permit limits?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, check all that apply below)
<input type="checkbox"/> Operation Hour Limit(s):	
<input type="checkbox"/> Production Limit(s):	
<input checked="" type="checkbox"/> Material Usage Limit(s):	3.5 MM GALLONS/YEAR FACILITY THRUPUT
<input type="checkbox"/> Limits Based on Stack Testing	Please attach all relevant stack testing summary reports
<input type="checkbox"/> Other:	
21. Rationale for Requesting the Limit(s):	MAINTAIN ACCEPTABLE AMBIENT BENZENE CONCENTRATION



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IDENTIFICATION

Company Name: Commercial Fuel Recycling, LLC	Facility Name:	Facility ID No:
Brief Project Description:	Initial Permit to Construct	

EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION

1. Emissions Unit (EU) Name:	TANK 2		
2. EU ID Number:	T-2 (EP5 AND EP6)		
3. EU Type:	<input type="checkbox"/> New Source <input checked="" type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modification to a Permitted Source -- Previous Permit #: Date Issued:		
4. Manufacturer:	--		
5. Model:	--		
6. Maximum Capacity:	150,000 GALLONS		
7. Date of Construction:	2003		
8. Date of Modification (if any)			
9. Is this a Controlled Emission Unit?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If Yes, complete the following section. If No, go to line 18.		

EMISSIONS CONTROL EQUIPMENT

10. Control Equipment Name and ID:						
11. Date of Installation:			12. Date of Modification (if any):			
13. Manufacturer and Model Number:						
14. ID(s) of Emission Unit Controlled:						
15. Is operating schedule different than emission units(s) involved?	<input type="checkbox"/> Yes <input type="checkbox"/> No					
16. Does the manufacturer guarantee the control efficiency of the control equipment?	<input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, attach and label manufacturer guarantee)					
Control Efficiency	Pollutant Controlled					
	PM	PM10	SO ₂	NO _x	VOC	CO

17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.

EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)

18. Actual Operation	8760 HOURS/YEAR
19. Maximum Operation	8760 HOURS/YEAR

REQUESTED LIMITS

20. Are you requesting any permit limits?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, check all that apply below)
<input type="checkbox"/> Operation Hour Limit(s):	
<input type="checkbox"/> Production Limit(s):	
<input checked="" type="checkbox"/> Material Usage Limit(s):	3.5 MM GALLONS/YEAR FACILITY THRUPUT
<input type="checkbox"/> Limits Based on Stack Testing	Please attach all relevant stack testing summary reports
<input type="checkbox"/> Other:	
21. Rationale for Requesting the Limit(s):	MAINTAIN ACCEPTABLE AMBIENT BENZENE CONCENTRATION



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IDENTIFICATION

Company Name: Commercial Fuel Recycling, LLC	Facility Name:	Facility ID No:
Brief Project Description:	Initial Permit to Construct	

EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION

1. Emissions Unit (EU) Name:	TANK 3		
2. EU ID Number:	T-3 (EP7 AND EP8)		
3. EU Type:	<input type="checkbox"/> New Source <input checked="" type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modification to a Permitted Source -- Previous Permit #:		Date Issued:
4. Manufacturer:	--		
5. Model:	--		
6. Maximum Capacity:	110,000 GALLONS		
7. Date of Construction:	2003		
8. Date of Modification (if any)			
9. Is this a Controlled Emission Unit?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If Yes, complete the following section. If No, go to line 18.		

EMISSIONS CONTROL EQUIPMENT

10. Control Equipment Name and ID:						
11. Date of Installation:		12. Date of Modification (if any):				
13. Manufacturer and Model Number:						
14. ID(s) of Emission Unit Controlled:						
15. Is operating schedule different than emission units(s) involved?	<input type="checkbox"/> Yes <input type="checkbox"/> No					
16. Does the manufacturer guarantee the control efficiency of the control equipment?	<input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, attach and label manufacturer guarantee)					
Control Efficiency	Pollutant Controlled					
	PM	PM10	SO ₂	NO _x	VOC	CO

17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.

EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)

18. Actual Operation	8760 HOURS/YEAR
19. Maximum Operation	8760 HOURS/YEAR

REQUESTED LIMITS

20. Are you requesting any permit limits?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, check all that apply below)
<input type="checkbox"/> Operation Hour Limit(s):	
<input type="checkbox"/> Production Limit(s):	
<input checked="" type="checkbox"/> Material Usage Limit(s):	3.5 MM GALLONS/YEAR FACILITY THRUPUT
<input type="checkbox"/> Limits Based on Stack Testing	Please attach all relevant stack testing summary reports
<input type="checkbox"/> Other:	
21. Rationale for Requesting the Limit(s):	MAINTAIN ACCEPTABLE AMBIENT BENZENE CONCENTRATION



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Company Name: Commercial Fuel Recycling, LLC	Facility Name:	Facility ID No:
Brief Project Description:	Initial Permit to Construct	

EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION

1. Emissions Unit (EU) Name:	TANK 5		
2. EU ID Number:	T-5 (EP9 AND EP10)		
3. EU Type:	<input type="checkbox"/> New Source <input checked="" type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modification to a Permitted Source -- Previous Permit #:		Date Issued:
4. Manufacturer:	--		
5. Model:	--		
6. Maximum Capacity:	12,900 GALLONS		
7. Date of Construction:	2003		
8. Date of Modification (if any)			
9. Is this a Controlled Emission Unit?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If Yes, complete the following section. If No, go to line 18.		

EMISSIONS CONTROL EQUIPMENT

10. Control Equipment Name and ID:						
11. Date of Installation:		12. Date of Modification (if any):				
13. Manufacturer and Model Number:						
14. ID(s) of Emission Unit Controlled:						
15. Is operating schedule different than emission units(s) involved?	<input type="checkbox"/> Yes <input type="checkbox"/> No					
16. Does the manufacturer guarantee the control efficiency of the control equipment?	<input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, attach and label manufacturer guarantee)					
Control Efficiency	Pollutant Controlled					
	PM	PM10	SO ₂	NO _x	VOC	CO

17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.

EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)

18. Actual Operation	8760 HOURS/YEAR
19. Maximum Operation	8760 HOURS/YEAR

REQUESTED LIMITS

20. Are you requesting any permit limits?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, check all that apply below)
<input type="checkbox"/> Operation Hour Limit(s):	
<input type="checkbox"/> Production Limit(s):	
<input checked="" type="checkbox"/> Material Usage Limit(s):	3.5 MM GALLONS/YEAR FACILITY THRUPUT
<input type="checkbox"/> Limits Based on Stack Testing	Please attach all relevant stack testing summary reports
<input type="checkbox"/> Other:	
21. Rationale for Requesting the Limit(s):	MAINTAIN ACCEPTABLE AMBIENT BENZENE CONCENTRATION



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Brief Project Description:	Initial Permit to Construct	

EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION

1. Emissions Unit (EU) Name:	TANK 6		
2. EU ID Number:	T-6 (EP11 AND EP12)		
3. EU Type:	<input type="checkbox"/> New Source <input checked="" type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modification to a Permitted Source -- Previous Permit #:		Date Issued:
4. Manufacturer:	--		
5. Model:	--		
6. Maximum Capacity:	12,900 GALLONS		
7. Date of Construction:	2003		
8. Date of Modification (if any)			
9. Is this a Controlled Emission Unit?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If Yes, complete the following section. If No, go to line 18.		

EMISSIONS CONTROL EQUIPMENT

10. Control Equipment Name and ID:						
11. Date of Installation:			12. Date of Modification (if any):			
13. Manufacturer and Model Number:						
14. ID(s) of Emission Unit Controlled:						
15. Is operating schedule different than emission units(s) involved?	<input type="checkbox"/> Yes <input type="checkbox"/> No					
16. Does the manufacturer guarantee the control efficiency of the control equipment?	<input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, attach and label manufacturer guarantee)					
Control Efficiency	Pollutant Controlled					
	PM	PM10	SO ₂	NO _x	VOC	CO

17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.

EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)

18. Actual Operation	8760 HOURS/YEAR
19. Maximum Operation	8760 HOURS/YEAR

REQUESTED LIMITS

20. Are you requesting any permit limits?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, check all that apply below)
<input type="checkbox"/> Operation Hour Limit(s):	
<input type="checkbox"/> Production Limit(s):	
<input checked="" type="checkbox"/> Material Usage Limit(s):	3.5 MM GALLONS/YEAR FACILITY THRUPUT
<input type="checkbox"/> Limits Based on Stack Testing	Please attach all relevant stack testing summary reports
<input type="checkbox"/> Other:	
21. Rationale for Requesting the Limit(s):	MAINTAIN ACCEPTABLE AMBIENT BENZENE CONCENTRATION



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IDENTIFICATION

Company Name: Commercial Fuel Recycling, LLC	Facility Name:	Facility ID No:
Brief Project Description:	Initial Permit to Construct	

EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION

1. Emissions Unit (EU) Name:	TANK 7		
2. EU ID Number:	T-7 (EP13, EP14 AND EP15)		
3. EU Type:	<input type="checkbox"/> New Source <input checked="" type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modification to a Permitted Source -- Previous Permit #:		Date Issued:
4. Manufacturer:	--		
5. Model:	--		
6. Maximum Capacity:	12,300 GALLONS		
7. Date of Construction:	2003		
8. Date of Modification (if any)			
9. Is this a Controlled Emission Unit?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If Yes, complete the following section. If No, go to line 18.		

EMISSIONS CONTROL EQUIPMENT

10. Control Equipment Name and ID:						
11. Date of Installation:			12. Date of Modification (if any):			
13. Manufacturer and Model Number:						
14. ID(s) of Emission Unit Controlled:						
15. Is operating schedule different than emission units(s) involved?	<input type="checkbox"/> Yes <input type="checkbox"/> No					
16. Does the manufacturer guarantee the control efficiency of the control equipment?	<input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, attach and label manufacturer guarantee)					
Control Efficiency	Pollutant Controlled					
	PM	PM10	SO ₂	NO _x	VOC	CO

17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.

EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)

18. Actual Operation	8760 HOURS/YEAR
19. Maximum Operation	8760 HOURS/YEAR

REQUESTED LIMITS

20. Are you requesting any permit limits?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, check all that apply below)
<input type="checkbox"/> Operation Hour Limit(s):	
<input type="checkbox"/> Production Limit(s):	
<input checked="" type="checkbox"/> Material Usage Limit(s):	3.5 MM GALLONS/YEAR FACILITY THRUPUT
<input type="checkbox"/> Limits Based on Stack Testing	Please attach all relevant stack testing summary reports
<input type="checkbox"/> Other:	
21. Rationale for Requesting the Limit(s):	MAINTAIN ACCEPTABLE AMBIENT BENZENE CONCENTRATION



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IDENTIFICATION

Company Name: Commercial Fuel Recycling, LLC	Facility Name:	Facility ID No:
Brief Project Description:	Initial Permit to Construct	

EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION

1. Emissions Unit (EU) Name:	TANK 8		
2. EU ID Number:	T-8 (EP16, EP17, EP18 AND EP19)		
3. EU Type:	<input type="checkbox"/> New Source <input checked="" type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modification to a Permitted Source -- Previous Permit #:		Date Issued:
4. Manufacturer:	--		
5. Model:	--		
6. Maximum Capacity:	10,500 GALLONS		
7. Date of Construction:	2003		
8. Date of Modification (if any)			
9. Is this a Controlled Emission Unit?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If Yes, complete the following section. If No, go to line 18.		

EMISSIONS CONTROL EQUIPMENT

10. Control Equipment Name and ID:						
11. Date of Installation:			12. Date of Modification (if any):			
13. Manufacturer and Model Number:						
14. ID(s) of Emission Unit Controlled:						
15. Is operating schedule different than emission units(s) involved?	<input type="checkbox"/> Yes <input type="checkbox"/> No					
16. Does the manufacturer guarantee the control efficiency of the control equipment?	<input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, attach and label manufacturer guarantee)					
Control Efficiency	Pollutant Controlled					
	PM	PM10	SO ₂	NO _x	VOC	CO

17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.

EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)

18. Actual Operation	8760 HOURS/YEAR
19. Maximum Operation	8760 HOURS/YEAR

REQUESTED LIMITS

20. Are you requesting any permit limits?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, check all that apply below)
<input type="checkbox"/> Operation Hour Limit(s):	
<input type="checkbox"/> Production Limit(s):	
<input checked="" type="checkbox"/> Material Usage Limit(s):	3.5 MM GALLONS/YEAR FACILITY THRUPUT
<input type="checkbox"/> Limits Based on Stack Testing	Please attach all relevant stack testing summary reports
<input type="checkbox"/> Other:	
21. Rationale for Requesting the Limit(s):	MAINTAIN ACCEPTABLE AMBIENT BENZENE CONCENTRATION




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IDENTIFICATION				
Company Name: Commercial Fuel Recycling, LLC		Facility Name:		Facility ID No:
Brief Project Description:		Initial Permit to Construct		
EXEMPTION				
Please see IDAPA 58.01.01.222 for a list of industrial boilers that are exempt from Permit to Construct requirements.				
BOILER (EMISSION UNIT) DESCRIPTION AND SPECIFICATIONS				
1. Type of Request: <input type="checkbox"/> New Unit <input checked="" type="checkbox"/> Unpermitted Existing Unit <input type="checkbox"/> Modification to a Unit with Permit #:				
2. Use of Boiler: <input checked="" type="checkbox"/> % Used For Process <input type="checkbox"/> % Used For Space Heat <input type="checkbox"/> % Used For Generating Electricity <input type="checkbox"/> Other:				
3. Boiler ID Number: H-1 (EP1 and EP2)		4. Rated Capacity: <input checked="" type="checkbox"/> 6.8 Million British Thermal Units Per Hour (MMBtu/hr) <input type="checkbox"/> 1,000 Pounds Steam Per Hour (1,000 lb steam/hr)		
5. Construction Date: 2004		6. Manufacturer: Parker		7. Model: T-6800
8. Date of Modification (if applicable):		9. Serial Number (if available): 40847		10. Control Device (if any): Note: Attach applicable control equipment form(s)
FUEL DESCRIPTION AND SPECIFICATIONS				
11. Fuel Type	<input type="checkbox"/> Diesel Fuel (#) (gal/hr)	<input checked="" type="checkbox"/> Natural Gas (cf/hr)	<input type="checkbox"/> Coal (unit: /hr)	<input type="checkbox"/> Other Fuels (unit: /hr)
12. Full Load Consumption Rate		6667		
13. Actual Consumption Rate				
14. Fuel Heat Content (Btu/unit, LHV)		1020		
15. Sulfur Content wt%				
16. Ash Content wt%		N/A		
STEAM DESCRIPTION AND SPECIFICATIONS				
17. Steam Heat Content	NA	NA		
18. Steam Temperature (°F)	N/A	N/A		
19. Steam Pressure (psi)	N/A	N/A		
20. Steam Type	N/A	N/A	<input type="checkbox"/> Saturated <input type="checkbox"/> Superheated	<input type="checkbox"/> Saturated <input type="checkbox"/> Superheated
OPERATING LIMITS & SCHEDULE				
21. Imposed Operating Limits (hours/year, or gallons fuel/year, etc.): 8760 hrs/yr				
22. Operating Schedule (hours/day, months/year, etc.): 8760 hrs/yr				

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Company Name:		Commercial Fuel Recycling, LLC												
Facility Name:														
Facility ID No.:														
Brief Project Description:		Initial Permit to Construct												
SUMMARY OF FACILITY WIDE EMISSION RATES FOR CRITERIA POLLUTANTS - POINT SOURCES														
1.	2.	3.												
		PM ₁₀		SO ₂		NO _x		CO		VOC		Lead		
Emissions units	Stack ID	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	
Point Source(s)														
HEATER 1	EP1	0.03	0.11	0.00	0.01	0.31	1.37	0.13	0.58	0.02	0.08	0.00	0.00	
"	EP2	0.03	0.11	0.00	0.01	0.31	1.37	0.13	0.58	0.02	0.08	0.00	0.00	
TANK 1	EP3									0.00	0.00			
"	EP4									0.00	0.00			
TANK 2	EP5									0.00	0.00			
"	EP6									0.00	0.00			
TANK 3	EP7									0.00	0.00			
"	EP8									0.00	0.00			
TANK 5	EP9									0.00	0.00			
"	EP10									0.00	0.00			
TANK 6	EP11									0.00	0.00			
"	EP12									0.00	0.00			
TANK 7	EP13									0.00	0.00			
"	EP14									0.00	0.00			
"	EP15									0.00	0.00			
TANK 8	EP16									0.00	0.00			
"	EP17									0.00	0.00			
"	EP18									0.00	0.00			
"	EP19									0.00	0.00			
Total		0.05	0.22	0.00	0.02	0.63	2.74	0.27	1.17	0.04	0.16	0.00	0.00	



DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline - 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 2
4/5/2007

Please see instructions on page 2 before filling out the form.

Company Name:	Commercial Fuel Recycling, LLC
---------------	--------------------------------

Facility Name:

Facility ID No.:

Brief Project Description:	Initial Permit to Construct
----------------------------	-----------------------------

SUMMARY OF FACILITY WIDE EMISSION RATES FOR CRITERIA POLLUTANTS - FUGITIVE SOURCES

[illegible]



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Company Name:	Commercial Fuel Recycling, LLC
---------------	--------------------------------

Facility Name:

Facility ID No.:

Brief Project Description:	Initial Permit to Construct
----------------------------	-----------------------------

SUMMARY OF EMISSIONS INCREASE (PROPOSED PTE - PREVIOUSLY MODELED PTE) - POINT SOURCES

[illegible]



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Company Name: Commercial Fuel Recycling, LLC

Facility Name:

Facility ID No.:

Brief Project Description:	Initial Permit to Construct
----------------------------	-----------------------------

SUMMARY OF EMISSIONS INCREASE (PROPOSED PTE - PREVIOUSLY MODELED PTE) - FUGITIVE SOURCES

1.

2.

3.

Air Pollutant Maximum Change in Emissions Rate (lbs/hr or t/yr)

PM₁₀

 SO_2

NO_x

CO

VOC

Lead

Fugitive Source Name

Fugitive ID

lb/hr

T/yr

lb/hr

T/yr

lb/hr

T/yr

lb/hr

T/yr

lb/hr

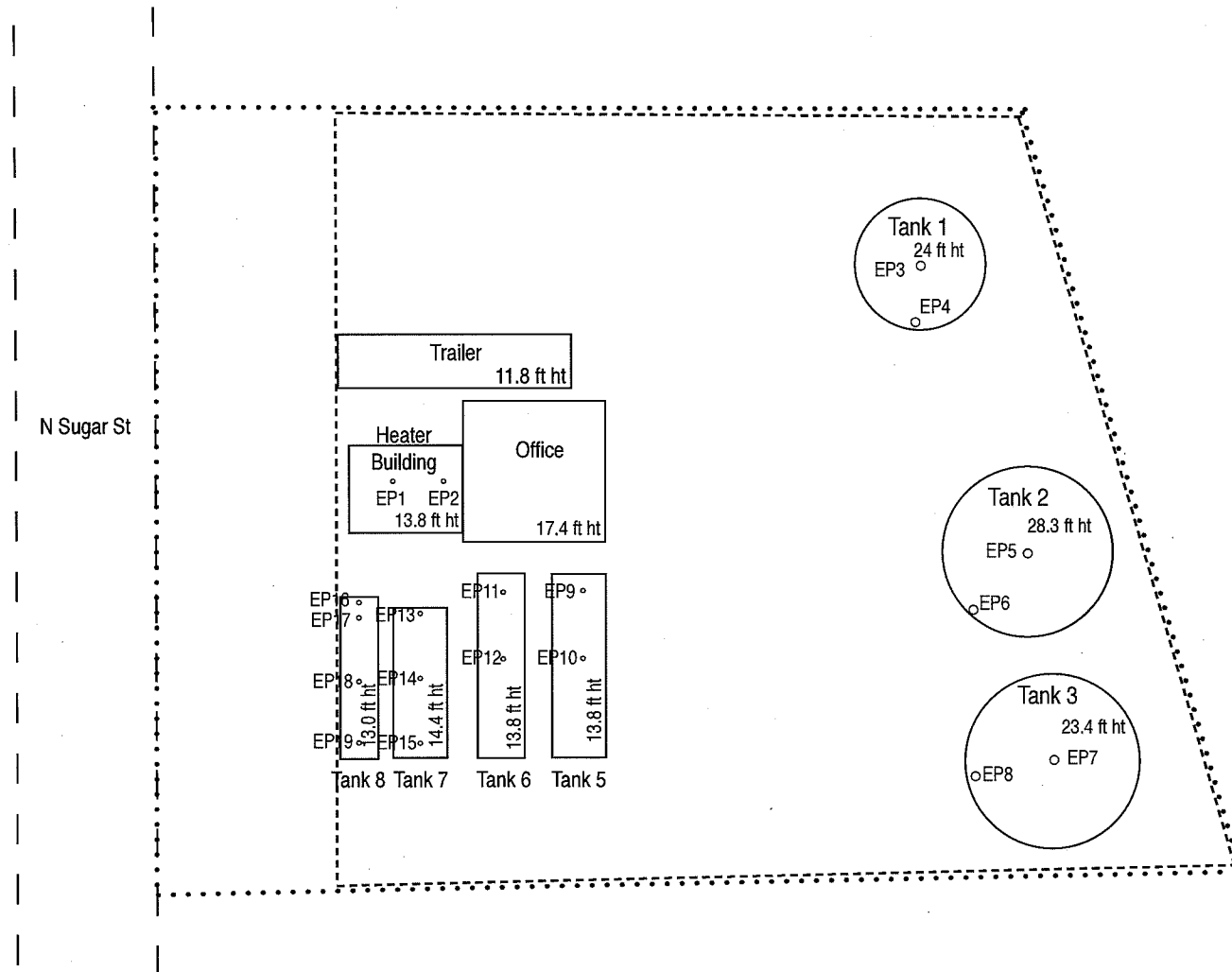
T/yr

lb/hr

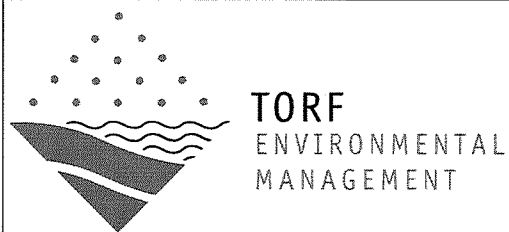
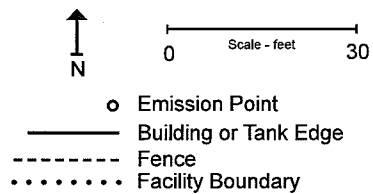
T/yr

Fugitive Source(s)

Total



Legend



FORM PP: Plot Plan
Commercial Fuel Recycling, LLC
720 N Sugar Street
Nampa, Idaho

October 2007


	DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline - 1-877-5PERMIT	PERMIT TO CONSTRUCT APPLICATION Revision 3 4/5/2007

Please see instructions on page 2 before filling out the form.

Company Name:	Commercial Fuel Recycling, LLC
Facility Name:	
Facility ID No.:	
Brief Project Description:	Initial Permit to Construct

SUMMARY OF AIR IMPACT ANALYSIS RESULTS - CRITERIA POLLUTANTS

		1.		2.	3.	4.		5.
Criteria Pollutants	Averaging Period	Significant Impact Analysis Results (µg/m3)	Significant Contribution Level (µg/m3)	Full Impact Analysis Results (µg/m3)	Background Concentration (µg/m3)	Total Ambient Impact (µg/m3)	NAAQS (µg/m3)	Percent of NAAQS
PM ₁₀	24-hour		5				150	
	Annual		1				50	
SO ₂	3-hr		25				1300	
	24-hr		5				365	
	Annual		1				80	
NO ₂	Annual		1	18.70	32.00	50.70	100	51%
CO	1-hr		2000				10000	
	8-hr		500				40000	

	DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline - 1-877-5PERMIT		PERMIT TO CONSTRUCT APPLICATION							
			Revision 3 3/27/2007							
Please see instructions on page 2 before filling out the form.										
Company Name:		Commercial Fuel Recycling, LLC								
Facility Name:										
Facility ID No.:										
Brief Project Description:		Initial Permit to Construct								
POINT SOURCE STACK PARAMETERS										
1.	2.	3a.	3b.	4.	5.	6.	7.	8.	9.	10.
Emissions units	Stack ID	UTM Easting (m)	UTM Northing (m)	Base Elevation (m)	Stack Height (m)	Modeled Diameter (m)	Stack Exit Temperature (K)	Stack Exit Flowrate (acfm)	Stack Exit Velocity (m/s)	Stack orientation (e.g., horizontal, rain cap)
Point Source(s)										
HEATER 1	EP1	536986	4826314	770.1	4.73	0.610	505.15	1,500	2.4	VERTICAL
"	EP2	536988	4826314	770.1	5.34	0.610	505.15	1,500	2.4	VERTICAL
TANK 1	EP3	537014	4826326	770.9	7.70	0.204	284.82		0.001	PCV
"	EP4	537014	4826323	770.9	7.52	0.369	284.82		0.001	VERTICAL
TANK 2	EP5	537019	4826311	770.6	9.01	0.204	284.82		0.001	PCV
"	EP6	537016	4826308	770.6	8.73	0.405	284.82		0.001	VERTICAL
TANK 3	EP7	537021	4826300	770.6	7.29	0.076	284.82		0.001	DOWNWARD
"	EP8	537016	4826299	770.6	6.23	0.405	284.82		0.001	VERTICAL
TANK 5	EP9	536996	4826309	770.0	4.24	0.610	333.10		0.001	RAINCAP
"	EP10	536996	4826305	770.0	4.80	0.076	333.10		0.001	VERTICAL
TANK 6	EP11	536992	4826309	770.0	4.24	0.610	333.10		0.001	RAINCAP
"	EP12	536992	4826305	770.0	4.80	0.076	333.10		0.001	VERTICAL
TANK 7	EP13	536988	4826307	770.0	4.39	0.482	333.10		0.001	VERTICAL
"	EP14	536988	4826304	770.0	4.59	0.509	333.10		0.001	VERTICAL
"	EP15	536988	4826301	770.0	4.39	0.482	333.10		0.001	VERTICAL
TANK 8	EP16	536985	4826309	770.0	4.02	0.052	333.10		0.001	VERTICAL
"	EP17	536985	4826308	770.0	3.96	0.482	333.10		0.001	VERTICAL
"	EP18	536985	4826304	770.0	4.12	0.509	333.10		0.001	VERTICAL
"	EP19	536985	4826301	770.0	3.96	0.482	333.10		0.001	VERTICAL



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PERMIT TO CONSTRUCT APPLICATIONRevision 3
4/5/2007

Please see instructions on page 2 before filling out the form.

Company Name:	Commercial Fuel Recycling, LLC
---------------	--------------------------------

Facility Name:

Facility ID No.:

Brief Project Description:	Initial Permit to Construct
-----------------------------------	-----------------------------

FUGITIVE SOURCE PARAMETERS

[illegible]



DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
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Air Permit Hotline - 1-877-5PERMIT

Please see instructions on page 2 before filling out the form.

Brief Project Description:	Initial Permit to Construct
----------------------------	-----------------------------

BUILDING AND STRUCTURE INFORMATION

[illegible]



DEQ AIR QUALITY PROGRAM
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PERMIT TO CONSTRUCT APPLICATION

Revision 3
 03/26/07

Please see instructions on page 2 before filling out the form.

IDENTIFICATION		
Company Name: Commercial Fuel Recycling, LLC	Facility Name:	Facility ID No:
Brief Project Description: Initial Permit to Construct		
APPLICABILITY DETERMINATION		
1. Will this project be subject to 1990 CAA Section 112(g)? (Case-by-Case MACT)	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES*
* If YES, applicant must submit an application for a case-by-case MACT determination [IAC 567 22-1(3)"b" (8)]		
2. Will this project be subject to a New Source Performance Standard? (40 CFR part 60)	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES*
*If YES, please identify sub-part: _____		
3. Will this project be subject to a MACT (<u>M</u> aximum <u>A</u> chievable <u>C</u> ontrol <u>T</u> echnology) regulation? (40 CFR part 63)	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES*
*If YES, please identify sub-part: _____		
THIS ONLY APPLIES IF THE PROJECT EMITS A HAZARDOUS AIR POLLUTANT		
4. Will this project be subject to a NESHAP (<u>N</u> ational <u>E</u> mission <u>S</u> tandards for <u>H</u> azardous <u>A</u> ir <u>P</u> ollutants) regulation? (40 CFR part 61)	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES*
*If YES, please identify sub-part: _____		
5. Will this project be subject to PSD (<u>P</u> revention of <u>S</u> ignificant <u>D</u> eterioration)? (40 CFR section 52.21)	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
6. Was netting done for this project to avoid PSD?	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES*
*If YES, please attach netting calculations		
IF YOU ARE UNSURE HOW TO ANSWER ANY OF THESE QUESTIONS, CALL THE AIR PERMIT HOTLINE AT 1-877-5PERMIT		

AIR QUALITY PERMIT TO CONSTRUCT
APPLICATION FORM DOCUMENTATION
Commercial Fuel Recycling, LLC
720 N. Sugar Street
Nampa, Idaho 83687

December 17, 2007

Prepared for: Commercial Fuel Recycling, LLC
3116 Garrity Boulevard
No. 7, PMB #63
Nampa, Idaho 83687

For the Facility at: 720 N. Sugar Street
Nampa, Idaho 83687

Prepared by: TORF Environmental Management
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Boise, Idaho 83712

(208) 345-7222
(208) 345-8285 FAX
www.torf.us

Sarah L. Stine

Sarah L. Stine, P.E.
Sr. Engineer
(208) 571-2393

Sarah L. Stine
12-17-2007



Table of Contents

1. SUMMARY.....	1-1
2. GENERAL INFORMATION – FORM GI DOCUMENTATION	2-1
3. GENERAL EMISSION UNITS – FORM EUO DOCUMENTATION	3-1
3.1 Product Storage Tanks	3-1
3.2 Oil Processing Tanks	3-1
3.3 Proposed Permit Limits	3-1
4. BOILER UNIT – FORM EU5 DOCUMENTATION	4-1
5. EMISSION INVENTORY WORKBOOK FORMS EI1-EI4 DOCUMENTATION	5-1
5.1 Natural Gas-Fired Heater Emissions	5-1
5.2 Storage Tank Emissions.....	5-2
5.3 Processing Tank Emissions.....	5-4
5.4 Controlled Emissions Analysis- Facility Summary.....	5-5
6. PLOT PLAN – FORM PP DOCUMENTATION	6-1
7. MODELING INFORMATION WORKBOOK - FORM MI1-MI4 DOCUMENTATION	7-1
8. FEDERAL REGULATION APPLICABILITY – FORM FRA DOCUMENTATION.....	8-1
9. CERTIFICATION.....	9-1

List of Tables

Table 5-1a: Hot Water Boiler Criteria Emissions.....	5-1
Table 5-1b: Hot Water Boiler TAP Emissions	5-2
Table 5-2: Product Storage Tanks 1-3 TANKS Input and Estimated Emissions	5-3
Table 5-3: Process Tanks 5-8 TANKS Input and Estimated Emissions	5-6
Table 5-4: Facility Criteria, Hazardous, and Toxic Air Pollutants Emissions Summary	5-7

Appendices

Appendix A: Used Oil and Recycled Fuel Oil Product Analytical Results

Appendix B: TANKS Run Reports



AIR QUALITY PERMIT TO CONSTRUCT APPLICATION
Commercial Fuel Recycling, LLC
720 N. Sugar Street
Nampa, Idaho 83687

1. SUMMARY

Commercial Fuel Recycling, LLC (Commercial Fuel) proposes to operate an oil recycling facility at 720 N. Sugar Street, Nampa, Idaho. Air pollutant emitting sources at the facility include one natural gas-fired hot water boiler, three product storage tanks and four processing tanks. The results of the inventory of potential emissions and calculation of estimated regulated air emissions demonstrate that the facility is eligible for an Idaho Air Quality Permit to Construct (PTC).

The facility will not be a major facility for the purposes of the Permit to Construct requirements.¹ Emission calculations demonstrate that permit-controlled NSR regulated pollutant rates are less than 100 tons per year. Uncontrolled emissions of individual Hazardous Air Pollutants (HAPs) are less than 10 tons per year. Uncontrolled emissions of combined HAPs are less than 25 tons per year. Therefore, the facility is not a major facility in terms of Tier I operating permit requirements.² Uncontrolled emissions of most Toxic Air Pollutants (TAPs) are below screening emission levels.³ Controlled emissions of all TAPs are below acceptable ambient concentrations.⁴

¹ Idaho Department of Environmental Quality (IDEQ), Rules For The Control Of Air Pollution In Idaho, IDAPA 58 Title 01, Chapter 01, Section 200.

² Ibid., Section 008.10.

³ Ibid., Section 210.05-06.

⁴ Ibid., Section 210.08.



2. GENERAL INFORMATION – FORM GI DOCUMENTATION

See FORM GI, attached.

3. GENERAL EMISSION UNITS – FORM EUO DOCUMENTATION

There are seven General Emission Units associated with this PTC application. Three are unheated, vertical, cylindrical storage tanks used to store the fuel oil product. Four are heated, horizontal, cylindrical processing tanks used to treat used motor oil. None of the General Emission Units are equipped with emission control devices. The tank layout at the facility is shown on Form PP: *Plot Plan*, provided in the application packet.

3.1 Product Storage Tanks

Three of the tanks on site, Tanks 1-3, are vertical, cylindrical tanks ranging in volume from 60,000-150,000 gallons. These tanks are used for storage of the processed oil. The storage tanks are unheated and are kept at atmospheric pressure via open nozzles located in the tank roofs. Tanks 1 and 2 are flat-roofed. Tank 3 has a shallow (3 ft), center-pitched roof. The tanks are uninsulated. There is no Tank 4.

3.2 Oil Processing Tanks

Four of the tanks on site, Tanks 5-8, are horizontal, cylindrical tanks ranging in volume from 10,000-13,000 gallons. These tanks are used for short-term storage and processing of the used oil feed. The tanks rest on concrete saddles which hold them 5-6 feet above grade. The processing tanks are kept at atmospheric pressure via open nozzles located in the tops of the tanks. Tanks 5 and 6 are insulated, while Tanks 7 and 8 are uninsulated.

The oil recycling process involves heating a tank of oil to approximately 220°F to remove water, while simultaneously circulating the oil through a series of filters to remove particulate contaminants. Processing time is typically 16-24 hours. A glycol-water mixture is circulated through heating coils in the processing tanks to heat the used oil. The glycol solution is heated to approximately 320°F in a Parker Model T-6800 Hot Water Boiler. The boiler is described in detail in Section 4.

3.3 Proposed Permit Limits

Based on the results of emission calculations for the storage and processing tanks, permit limits are proposed which limit the throughput of the facility to 3,500,000 gallons of oil per year. The pollutant of concern at the facility is benzene. Controlling the facility throughput will ensure that the ambient concentration of benzene does not exceed the maximum acceptable level. In 2006, the facility processed 2,070,000 gallons of used oil. The previous years' amounts were less.

4. BOILER UNIT – FORM EU5 DOCUMENTATION

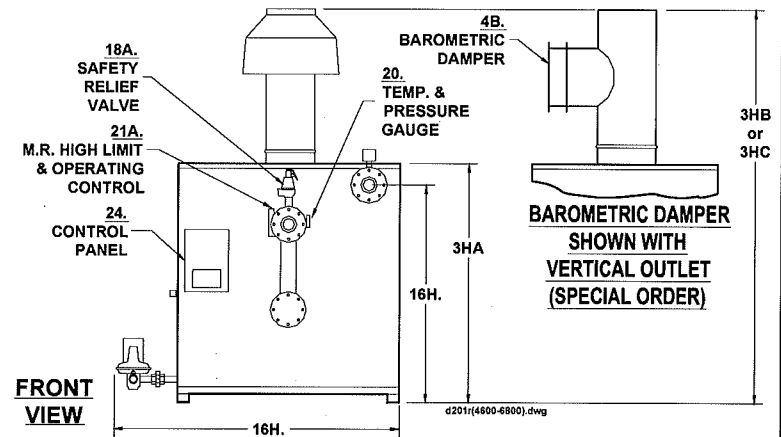
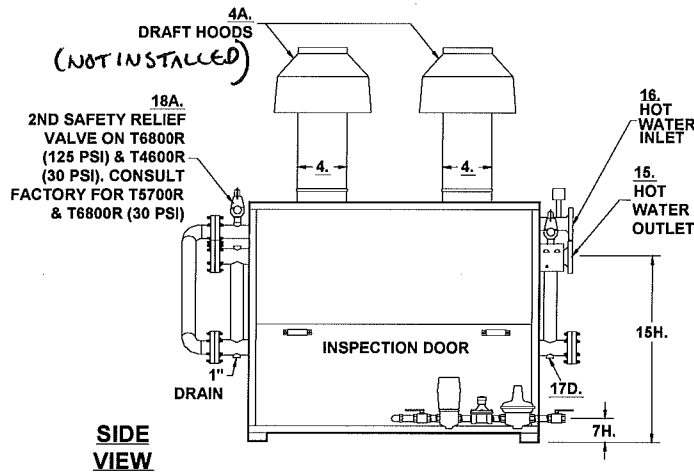
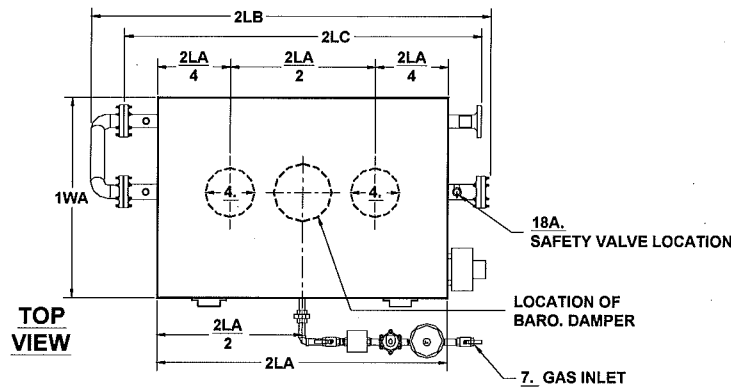
A hot glycol-water mixture is circulated through heating coils in Processing Tanks 5-8 to heat the used oil. The glycol solution is heated to approximately 320°F in a Parker Model T-6800 Hot Water Boiler with a design duty of 6.8 MMBtu/hr. The boiler fuel is natural gas. A manufacturer's specification sheet is attached.

Emissions for this unit were estimated at the design duty, operating 8760 hours per year. No operating limits are requested. No emission control equipment is installed on this unit.

PARKER DIRECT FIRED HOT WATER BOILERS
T4600R TO T6800R - ATMOSPHERIC GAS FIRED W/FINNED CONVECTIVE SECTION

SPEC. SHEET D-201R-I
 0D3

Commercial Fuel PTC Application
 Section 4: FORM EU5 Documentation
 Boiler Spec Sheet



NO.		MODEL NO.	T4600R	T5700R	T6800R
A	BTU Input	1000's BTU/HR.	4600	5700	6800
B	BTU Output (82%)	1000's BTU/HR.	3772	4674	5576
C	Heating Surface	SQ.	951	1087	1330
1WA	Width of Cabinet Only	IN.	54	55	55
1WB	Width Overall Including Controls	IN.	72	72	72
2LA	Length of Cabinet Only	IN.	102	119	145
2LB	Length Overall	IN.	138	153	182
2LC	Header Length less Blind Flanges	IN.	121	138	168
3HA	Height of Cabinet Only	IN.	64	64	64
3HB	Height Overall Including Draft Hoods - (Standard)	IN.	108	110	112
3HC	Height Overall Including Baro. Damper (Vert./Horiz. Outlet)(Special Order)	IN.	104 / 104	104 / 107	108 / 110
4A	Vent Stack Diameter with Draft Hoods - (Standard)	IN.	(2) 20	(2) 22	(2) 24
4B	Vent Stack Diameter with Barometric Damper	IN.	22	26	28
7A	Std. Nat. Gas Inlet Size	IN.	3	3	3
7A1	Std. Nat. Gas Inlet Supply Pressure; Max: 14" WC; Min. ___ "W.C.	IN. WC	7	10	10
7A2	Nat. Gas Manifold Pressure at Burner	IN.	4	4	4
7B	Hi Press. Nat. Gas or LPG Gas Inlet Size Supply Press. 1-5 PSI	IN.	2	2	2
7B1	Propane Manifold Pressure at Burner	IN. WC	18	18	18
7H	Gas Inlet Height From Floor	IN.	19	19	19
15	Hot Water Outlet Size (Class 150 Flanged)	IN.	5	6	6
15H	Hot Water Outlet Height From Floor	IN.	47	47	47
16	Water Inlet Size (Class 150 Flanged)	IN.	5	6	6
16H	Water Inlet Height From Floor	IN.	58	58	58
17D	Drain Openings (1" Return Side of Boiler) Outlet Side	IN.	1-1/2	2	2
18AHP	Safety Relief Valve Drain Size-125 PSI, 250°F, "H" Code OUTLET	IN.	2	2	(2) 2
18ALP	Safety Relief Valve Drain Size- 30 PSI, 250°F, "H" Code OUTLET	IN.	(2) 2-1/2	CF	CF
J	Water Capacity	GAL.	120	143	162
K	Net Weight of Boiler	LBS.	7570	8930	10750
L	Domestic Crated Shipping Weight of Boiler	LBS.	8170	9750	11725

MINIMUM LISTED CLEARANCES TO COMBUSTIBLE CONSTRUCTION:	12" Cabinet Sides & Rear	48" Cabinet Top	6" Draft Hood Vent Connector	12" Baro. Damper Chimney Connector
--	-----------------------------	--------------------	---------------------------------	---------------------------------------

Recommended Clearances for Access: Inspection Doors 18"; Controls 24"; Electrical Panel 30"; Additional Space may be required by Local Codes

CF-Consult Factory. Note: Due to continuous improvements, specifications are subject to change without notice.

D-201r(4600-6800).doc

5. EMISSION INVENTORY WORKBOOK FORMS EI1-EI4 DOCUMENTATION

5.1 Natural Gas-Fired Heater Emissions

Emission factors for estimating the emissions from the natural gas-fired heater are based on AP-42, Section 1.4 Natural Gas Combustion, July 1998 edition. The estimated uncontrolled criteria pollutant emissions are calculated in Table 5-1a (below).

Table 5-1a: Hot Water Boiler Criteria Emissions

Unit ID	Rated Input (MMBtu per hr)	On-Line Rating (hrs/yr)	Fuel Rate ¹ (scfh)	Emission Factors			Uncontrolled Emissions		Modeling Threshold	
					AP-42 Table	lb/MMscf	lb/hr	tons/yr	lb/hr	tons/yr
Heater 1 Parker T-6800 HW Boiler	6.800	8760	6667	NO _x	1.4-1	94	0.63	2.74	--	1.0
				CO	1.4-1	40	0.27	1.17	14	--
				SO ₂	1.4-2	0.6	0.0040	0.0175	0.2	1.0
				PM ₁₀	1.4-2	7.6	0.0507	0.2219	0.2	1.0
				Lead	1.4-2	0.0005	3.33E-06	1.46E-05	--	0.6
				VOC	1.4-2	5.5	0.0367	0.1606	--	--
Total = 4.31 tons/year										
Note 1: Assume natural gas heating value of 1020 Btu/scf.										

The combined carbon monoxide (CO), lead, small particulate matter (PM₁₀), and sulfur dioxide (SO₂) emissions do not exceed the IDEQ modeling thresholds and are not, therefore, included in air dispersion modeling. There are no other known facility sources of CO, lead, PM₁₀ and SO₂ emissions. Nitrogen oxide (NO_x) emissions are in excess of IDEQ modeling thresholds and are included in the site's air dispersion modeling analysis (see Section 7).

The estimated uncontrolled TAP emissions are calculated in Table 5-1b (below). Cadmium is the only TAP with heater emissions that exceed the IDEQ screening levels listed in IDAPA 58.01.01, Sections 585 and 586. Benzene and cadmium heater emissions are included in the site's air dispersion modeling analysis (see Section 7). Benzene is included because other facility sources have benzene emissions in excess of the IDEQ modeling threshold.

Table 5-1b: Hot Water Boiler TAP Emissions

Unit ID	Rated Input (MMBtu per hr)	On-line Rating Used (hrs/yr)	Emission Factors AP-42 Tables 1.4-3 and 1.4-4		Uncontrolled Combustion Emissions	58.01.01 Screening Level
			Toxic Air Pollutant	lb/MMBtu	lbs/hr	lbs/hr
Heater 1 Parker T-6800 HW Boiler	6.800	8760	Arsenic	2.0E-07	1.3E-06	1.50E-06
			Barium	4.3E-06	2.9E-05	0.033
			Benzene	2.1E-06	1.40E-05	8.00E-04
			Cadmium	1.1E-06	7.3E-06	3.70E-06
			Chromium	1.4E-06	9.3E-06	0.033
			Cobalt	8.2E-08	5.6E-07	0.0070
			Copper	8.3E-07	5.7E-06	0.07
			Dichlorobenzene	1.2E-06	8.0E-06	20
			Formaldehyde	7.4E-05	5.0E-04	5.10E-04
			Hexane	1.8E-03	0.012	12
			Manganese	3.7E-07	2.5E-06	0.060
			Mercury	2.5E-07	1.7E-06	0.001
			Molybdenum	1.1E-06	7.3E-06	0.333
			Naphthalene	6.0E-07	4.1E-06	3.33
			Nickel	2.1E-06	1.4E-05	2.70E-05
			Pentane	2.5E-03	1.7E-02	118
			Toluene	3.3E-06	2.3E-05	25
			Vanadium	2.3E-06	1.5E-05	0.003
			Zinc	2.8E-05	1.9E-04	0.067
Total = 0.13 tons/year						

5.2 Storage Tank Emissions

Emissions from the Product Storage Tanks 1-3 are associated with “breathing” losses- vaporization caused as ambient conditions change- and “working” losses- vapor emissions caused when the tank levels change. Tank emissions were estimated using the U.S. Environmental Protection Agency’s (EPA’s) TANKS software, Version 4.0.9d. The TANKS software allows users to input specific location, size, configuration, and content data.

The location for the tanks was input as Boise- the closest option offered by the program. Tank size, capacity, color, condition, and other configuration data were obtained from Commercial Fuel personnel or from field observations by TORF Environmental Management (TEM) personnel. A summary of the TANKS input data is provided in Table 5-2, below.

Table 5-2: Product Storage Tanks 1-3 TANKS Input and Estimated Emissions

TANKS Input Data		Tank 1	Tank 2	Tank 3			
Tank Type		Vertical, Fixed Roof, Unheated					
Roof Type		Flat		3' Ctr Pitch			
Tank Contents		Recycled Fuel Oil Product					
Tank Exterior		Silver Paint (entered as "White")					
Tank Length (ft)		24.0	28.3	20.1			
Tank Diameter (ft)		22.9	30.0	30.0			
Tank Capacity (gals)		74,000	150,000	110,000			
Tank Working Vol (gals)		60,000	135,000	100,000			
Average Level		50%	50%	50%			
Annual Throughput (gal/yr)	Total	3,500,000					
	Per Tank	711,864	1,601,695	1,186,441			
Batches per Year		11.86	11.9	11.9			
TANKS Output		Controlled Emissions			Proposed Permitted Annual Emissions	Proposed Permitted Hourly Emissions	58.01.01 Screening Level
		Tank 1	Tank 2	Tank 3			
Air Pollutant		lbs/yr	lbs/yr	lbs/yr	lbs/yr	lbs/hr	lbs/hr
Benzene		0.17	0.36	0.25	0.78	8.90E-05	8.00E-04
Ethylbenzene		0.08	0.17	0.12	0.37	4.22E-05	29
Naphthalene		0.00	0.00	0.00	0.00	0.00E+00	3.33
Tetrachloroethene		0.10	0.22	0.16	0.48	5.48E-05	1.30E-02
Toluene		0.99	2.12	1.51	4.62	5.27E-04	25
1,2,4-Trimethylbenzene		0.07	0.15	0.11	0.33	3.77E-05	8.2
Xylenes		0.44	0.95	0.68	2.07	2.36E-04	29
Fuel Oil VOCs		0.21	0.46	0.32	0.99	1.13E-04	--
Total = 0.0048 tons/year							

The proposed permit limit and controlled facility throughput of 3.5 MM gal/yr was distributed evenly among Tanks 1-3 in proportion to their relative working volumes. The average liquid height in each tank was assumed to be 50%. TANKS calculations to estimate "uncontrolled" emissions from Tanks 1-3 were not done since uncontrolled emission estimates from Tanks 5-8 indicate that facility throughput must be controlled to meet air quality standards (see discussion in Section 5-3).

The Recycled Fuel Oil Product (RFOP) stored in Tanks 1-3 was characterized using a combination of

analytical data and embedded TANKS options. A sample of RFOP was analyzed using EPA Methods 8260 and 8270. These results are provided in Appendix A. The specific hydrocarbon compounds detected, which total less than 0.18 wt%, were entered into TANKS. The remainder of the contents was specified as Residual Oil No. 6, an embedded TANKS option.

TANKS Run Reports for the three vertical storage tanks, Tanks 1-3, are provided in Appendix B. The output results are summarized in Table 5-2.

5.3 Processing Tank Emissions

Emissions from Processing Tanks 5-8 are associated with "breathing" losses- vaporization caused as ambient conditions change- and "working" losses- vapor emissions caused when the tank levels change. Processing tank emissions are also caused when the oil is heated to 220°F and water and hydrocarbons are vaporized. Tank emissions were estimated using the U.S. Environmental Protection Agency's (EPA's) TANKS software, Version 4.0.9d. The TANKS software allows users to input specific location, size, configuration, and content data.

The location for the tanks was input as Boise- the closest option offered by the program. Tank size, capacity, color, condition, and other configuration data were obtained from Commercial Fuel personnel or from field observations by TORF Environmental Management (TEM) personnel. A summary of the TANKS input data is provided in Table 5-3, attached.

The used oil processed in Tanks 5-8 was characterized using a combination of analytical data and embedded TANKS options. A sample of used oil was analyzed using EPA Methods 8260 and 8270. These results are provided in Appendix A. The specific hydrocarbon compounds detected, which totaled 0.15 wt%, were entered into TANKS. The remainder of the contents was specified as Residual Oil No. 6, a TANKS option. The default TANKS option for Residual Oil No. 6 limits accurate vapor pressure calculations to 100°F. To allow TANKS to accurately calculate emissions at the processing temperature of 220°F, Antoine's constants consistent with a heavy fuel oil (A=83897.34, B=9.503) were entered.

The TANKS program is set up to estimate monthly and annual emissions, not batch or daily emissions. In order to estimate the working and heating losses associated with processing each batch of oil, Tanks 5-8 were assumed to be processing a full tank of oil each day. This was done by setting up TANKS to turn over the full working tank volume 365 times per year. The resulting annual emissions can be considered "uncontrolled" emissions as defined in IDAPA 58.01.01.210.b, since processing one batch of oil per day in each tank would be the most the facility is capable of.

TANKS Run Reports for the four horizontal tanks, Tanks 5-8, are provided in Appendix B. The uncontrolled emissions from Tanks 5-8 are summarized in Table 5-3, attached. Operations with all four processing tanks in this manner result in an uncontrolled facility annual throughput of 14.4

MM gallons per year. As shown in Table 5-3, emission levels of benzene are above the IDAPA 58.01.01.586 Toxic Air Pollutant screening emission level. Screening emissions analysis (see 07/11/07 Modeling Protocol) indicated that the uncontrolled ambient air benzene concentration is above the acceptable level of 0.12 ug/m³ (IDAPA 58.01.01.586). Therefore, "controlled" emissions from operations at a proposed permitted annual throughput of 3.5 MM gallons per year are estimated.

Dividing the estimated uncontrolled emissions from each process tank by 365 days allows the per batch emissions from each tank to be estimated. To estimate each tank's controlled annual emissions, each tank's annual throughput is determined by dividing 3.5 MM gal/year between Tanks 5, 6, 7, and 8 in a 40/40/10/10% split. Tanks 5 and 6 are insulated and are used most often as the processing tanks. Heating capability was recently added to Tanks 7 and 8, and they are also used as processing tanks, though less frequently because they are not insulated.

Each processing tank's controlled annual throughput was divided by their respective working volume to determine the annual number of batches. Estimated controlled emissions from each tank were then calculated by multiplying the number of batches by the per batch emission rate established above. The results are shown in Table 5-3.

5.4 Controlled Emissions Analysis- Facility Summary

The total facility proposed permitted emissions are determined by adding the criteria and TAP annual emissions calculated (in tons per year) in Tables 5.1a, 5.1b, 5-2 and 5-3. The total facility emissions are 4.5 tons per year.

A facility-wide controlled emissions summary incorporating the proposed throughput limit and unrestricted boiler emissions is provided in Table 5-4, attached. The only criteria pollutant which exceeds DEQ's modeling threshold is NO_x. The only source of NO_x is the Parker Boiler.

As discussed in Sections 5.1 and 5.3, the uncontrolled emissions of cadmium and benzene exceed the TAP screening levels listed in IDAPA 58.01.01, Sections 585 and 586. These are the only TAPs that require air dispersion modeling. The facility-wide controlled emissions of these TAPs are shown in Table 5-4.

A summary of the Hazardous Air Pollutant (HAP) emissions is also provided. Proposed emissions are far below the individual HAP and total HAPs major facility thresholds of 10 and 25 tons per year, respectively.

Table 5-3: Process Tanks 5-8 TANKS Input and Estimated Emissions

TANKS Input Data		Tank 5	Tank 6	Tank 7	Tank 8	
Tank Type		Horizontal, Heated				
Tank Contents		Used Oil				
Tank Exterior		Orange Insulation ("Red")		Silver Paint	Rust ("Red")	
Tank Length (ft)		32.3	32.3	25.0	29.5	
Tank Diameter (ft)		8.3	8.3	9.2	7.8	
Tank Maximum Vol (gals)		12929	12929	12341	10544	
Tank Working Vol (gals)		10,500	10,500	10,000	8,500	
Max Annual Operations	Batches/yr	365	365	365	365	Total (gal)
	Calc'd Thruput (gal)	3,832,500	3,832,500	3,650,000	3,102,500	14,417,500

Processing Tanks Uncontrolled Emissions (TANKS Output)	Tank 5		Tank 6		Tank 7		Tank 8		Unrestricted Annual Emissions	Unrestricted Hourly Emissions	58.01.01 Screening Level
Air Pollutant	lbs/yr	lbs/batch	lbs/yr	lbs/batch	lbs/yr	lbs/batch	lbs/yr	lbs/batch	lbs/yr	lbs/hr	lbs/hr
Benzene	3.58	0.0098	3.58	0.0098	3.41	0.0093	2.91	0.0080	13.48	1.54E-03	8.00E-04
Ethylbenzene	1.03	0.0028	1.03	0.0028	0.99	0.0027	0.84	0.0023	3.89	4.44E-04	29
Naphthalene	0.04	0.0001	0.04	0.0001	0.04	0.0001	0.03	0.0001	0.15	1.71E-05	3.33
Tetrachloroethene	1.72	0.0047	1.72	0.0047	1.64	0.0045	1.40	0.0038	6.48	7.40E-04	1.30E-02
Toluene	17.99	0.0493	17.99	0.0493	17.15	0.0470	14.61	0.0400	67.74	7.73E-03	25
1,2,4-Trimethylbenzene	1.53	0.0042	1.53	0.0042	1.46	0.0040	1.24	0.0034	5.76	6.58E-04	8.2
Xylenes	7.22	0.0198	7.22	0.0198	6.98	0.0191	5.86	0.0161	27.28	3.11E-03	29
Fuel Oil VOCs	0.03	0.0001	0.03	0.0001	0.03	0.0001	0.03	0.0001	0.12	1.37E-05	--

Proposed Operations		Tank 5	Tank 6	Tank 7	Tank 8
Permitted Throughput (gal/yr)	Total	3,500,000			
	Per Tank	1,400,000	1,400,000	350,000	350,000
	Batches per Year	133.3	133.3	35.0	41.2

Processing Tanks Controlled Emissions	Tank 5	Tank 6	Tank 7	Tank 8	Proposed Permit Annual Emissions	Proposed Permit Hourly Emissions
Air Pollutant	lbs/yr	lbs/yr	lbs/yr	lbs/yr	lbs/yr	lbs/hr
Benzene	1.3078	1.3078	0.3270	0.3283	3.27	4.62E-04
Ethylbenzene	0.3763	0.3763	0.0949	0.0948	0.94	1.08E-04
Naphthalene	0.0146	0.0146	0.0038	0.0034	0.04	4.16E-06
Tetrachloroethene	0.6283	0.6283	0.1573	0.1579	1.57	1.79E-04
Toluene	6.5717	6.5717	1.6445	1.6482	16.44	1.88E-03
1,2,4-Trimethylbenzene	0.5589	0.5589	0.1400	0.1399	1.40	1.60E-04
Xylenes	2.6374	2.6374	0.6693	0.6611	6.61	7.54E-04
Fuel Oil VOCs	0.0110	0.0110	0.0029	0.0034	0.03	3.22E-06
Total =					0.015	tons/year

Table 5-4: Facility Criteria, Hazardous, and Toxic Air Pollutants Emissions Summary

Criteria Pollutants - Facility Total	Averaging Period	Modeling Threshold (ton/yr)	Unrestricted Boiler Emissions (ton/yr)	Proposed Storage Tanks 1-3 Emissions (ton/yr)	Proposed Process Tanks 5-8 Emissions (ton/yr)	Proposed Facility Emissions (ton/yr)
Lead ¹	Annual	0.6	1.46E-05	--	--	1.46E-05
NO _x	Annual	1.0	2.74	--	--	2.74
VOC	Annual	--	0.16	0.005	0.015	0.18

Toxic Air Pollutants - Facility Total	TAP Type (24 hr or Annual Averaging)	58.01.01 Screening Emission Level (lb/hr)	Unrestricted Boiler Emissions (lb/hr)	Proposed Storage Tanks 1-3 Emissions (lb/hr)	Proposed Process Tanks 5-8 Emissions (lb/hr)	Proposed Facility Emissions (lb/hr)	Proposed Facility Emissions (% of EL)
Arsenic ¹	586 (Annual)	1.50E-06	1.33E-06			1.33E-06	88.9%
Barium	585 (24 hr)	0.033	2.93E-05			2.93E-05	0.09%
Benzene ¹	586 (Annual)	8.00E-04	1.40E-05	8.90E-05	4.62E-04	5.65E-04	70.7%
Cadmium ¹	586 (Annual)	3.70E-06	7.33E-06			7.33E-06	198.2%
Chromium ¹	585 (24 hr)	0.033	9.33E-06			9.33E-06	0.03%
Cobalt ¹	585 (24 hr)	0.0070	5.60E-07			5.60E-07	0.01%
Copper	585 (24 hr)	0.07	5.67E-06			5.67E-06	0.01%
Dichlorobenzene ¹	585 (24 hr)	20	8.00E-06			8.00E-06	0.00004%
Ethyl Benzene ¹	585 (24 hr)	29		4.22E-05	1.08E-04	1.50E-04	0.0005%
Formaldehyde ¹	586 (Annual)	5.10E-04	5.00E-04			5.00E-04	98.0%
n-Hexane ¹	585 (24 hr)	12	1.20E-02			1.20E-02	0.10%
Manganese ¹	585 (24 hr)	0.060	2.53E-06			2.53E-06	0.004%
Mercury ¹	585 (24 hr)	0.001	1.73E-06			1.73E-06	0.17%
Molybdenum	585 (24 hr)	0.333	7.33E-06			7.33E-06	0.002%
Naphthalene ¹	585 (24 hr)	3.33	4.07E-06	0.00E+00	4.16E-06	8.23E-06	0.0002%
Nickel ¹	586 (Annual)	2.70E-05	1.40E-05			1.40E-05	51.9%
Pentane	585 (24 hr)	118	1.73E-02			1.73E-02	0.01%
Tetrachloroethene ¹	586 (Annual)	1.30E-02		5.48E-05	1.79E-04	2.34E-04	1.8%
Toluene ¹	585 (24 hr)	25	2.27E-05	5.27E-04	1.88E-03	2.43E-03	0.01%
1,2,4 Trimethylbenzene	585 (24 hr)	8.2		3.77E-05	1.60E-04	1.97E-04	0.002%
Vanadium	585 (24 hr)	0.003	1.53E-05			1.53E-05	0.51%
Xylenes ¹	585 (24 hr)	29		2.36E-04	7.54E-04	9.90E-04	0.003%
Zinc	585 (24 hr)	0.067	1.93E-04			1.93E-04	0.29%
¹ Hazardous Air Pollutants - Facility Total		Major Facility Threshold (ton/yr)	Unrestricted Boiler Emissions (ton/yr)	Proposed Storage Tanks 1-3 Emissions (ton/yr)	Proposed Process Tanks 5-8 Emissions (ton/yr)	Proposed Facility Emissions (ton/yr)	
Total HAPS		25	0.055	0.0042	0.015	0.074	

6. PLOT PLAN – FORM PP DOCUMENTATION

The Sugar Street facility is surrounded by a cinder block and/or chain-link fence, a minimum of six feet tall. Access is through two gates at the west side of the property.

The Heater and Office Building have center-pitched roofs. The elevation shown on the plot plan is the maximum roof height. The Trailer is a flat-roofed, single tier building. Tanks 1 and 2 are flat-roofed. Tank 3 has a center-pitched roof. The Tank 3 elevation shown on the plot plan is the maximum roof height. Tanks 5-8 are horizontal, cylindrical tanks resting on concrete saddles. The Tank 5-8 elevations shown on the plot plan are the maximum shell heights.

7. MODELING INFORMATION WORKBOOK - FORM MI1-MI4 DOCUMENTATION

A Modeling Protocol for this application was submitted to IDEQ on October 31, 2007. The protocol documents and details all model input values and model results. No changes have been made to the facility emissions estimates or other air dispersion modeling parameters since that protocol was submitted. Therefore the protocol will serve as the modeling report for this application.

IDEQ (Darrin Mehr) issued a response to the Modeling Protocol on November 13, 2007.⁵ The comments listed in the November 13th response have been addressed as detailed below:

Comment 1: *DEQ permitting staff has not reviewed the emission inventory submitted in the modeling protocol for completeness and accuracy. Review will be conducted after the official permit application is received by DEQ.*

Emission inventory review can proceed with this application submittal.

Comment 2: *Submit electronic copies of all modeling input and output files (including BPIP, raw meteorological data files, AERMET input and output files, and AERMAP input and output files) with an analysis report if a different dataset than provided to you by DEQ is used for this project.*

Electronic copies of all input and output files are included with this application.

⁵ Project Correspondence (letter), Darrin Mehr, Idaho DEQ, to Sarah Stine, TORF Environmental Management, Re: Revised Modeling Protocol for the Commercial Fuel Recycling Facility Located in Nampa, Idaho, November 13, 2007.

8. FEDERAL REGULATION APPLICABILITY – FORM FRA DOCUMENTATION

See FORM FRA, attached.

9. CERTIFICATION

I hereby certify that based upon information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

Randy Blackburn
(printed name)

President
(title)


(signature)

12-21-07
(date)

Permit to Construct Application
Commercial Fuel, Nampa, Idaho
December 17, 2007

Appendix A:
Used Oil Feed and Recycled Fuel Oil Product Analyses



Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: COMMERCIAL FUEL RECYCLING
Address: 7336 CORAL CT
NAMPA, ID 73687
Attn: MARK DESROSIERS

Batch #: 070420023
Project Name: PROCESS COMPARISONS

Analytical Results Report

Sample Number 070420023-001 **Sampling Date** 4/18/2007 **Date/Time Received** 4/20/2007 11:10 AM
Client Sample ID 041807 UNPROCESSED
Matrix: Liquid

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
1,1,1-Trichloroethane	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
1,1,2-Trichloroethane	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
1,1-Dichloroethane	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
1,1-Dichloroethene	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
1,1-dichloropropene	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
1,2,3-Trichloropropane	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
1,2,4-Trimethylbenzene	338	mg/kg	10	4/30/2007	TGT	EPA 8260B	
1,2-Dibromoethane	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
1,2-Dichlorobenzene	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
1,2-Dichloroethane	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
1,2-Dichloropropane	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
1,3-Dichlorobenzene	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
1,3-Dichloropropane	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
1,4-Dichlorobenzene	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
2,2-Dichloropropane	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
2-hexanone	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
Acetone	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
Benzene	31.1	mg/kg	10	4/30/2007	TGT	EPA 8260B	
Bromochloromethane	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
Bromodichloromethane	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
Bromoform	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
Carbon Tetrachloride	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
Chlorobenzene	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
Chloroethane	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
Chloroform	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
Chloromethane	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
cis-1,2-dichloroethene	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
cis-1,3-Dichloropropene	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
Dibromochloromethane	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
Dibromomethane	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
Dichlorodifluoromethane	ND	mg/kg	10	4/30/2007	TGT	EPA 8260B	
Ethylbenzene	60.7	mg/kg	10	4/30/2007	TGT	EPA 8260B	

Comments: